# Developments in Soil Survey Research and Characterization Data

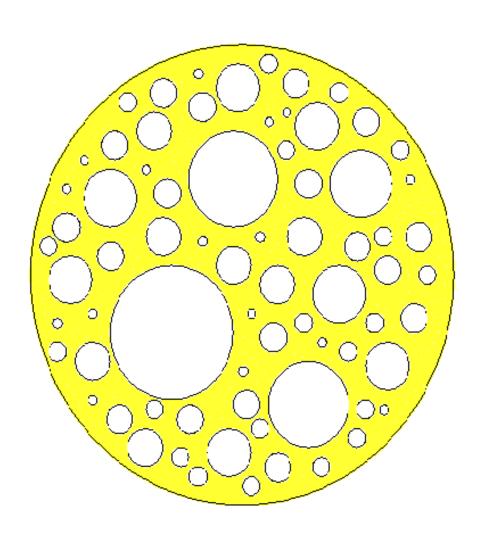
North Central Work Planning Conference June 2008



#### MLRA Soil Survey Office Charges

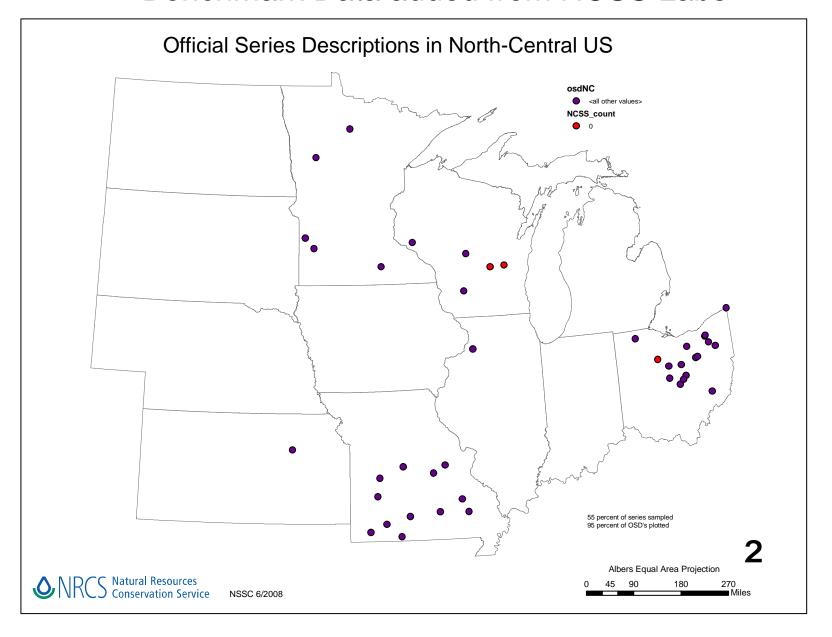
- updating soil surveys on a physiographic basis
- develop long-range plans, project plans, annual plans
- perform investigations throughout the MLRA(s)
- maintain soil survey datasets
- inventory and review of benchmark soils
- review and update of official series descriptions
- etc.

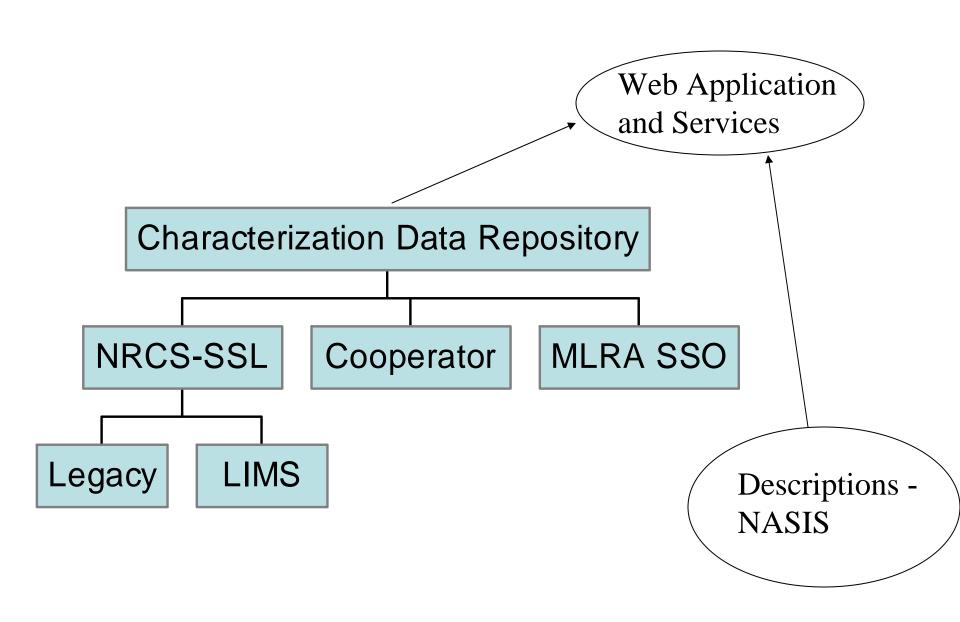
# Fill the Voids





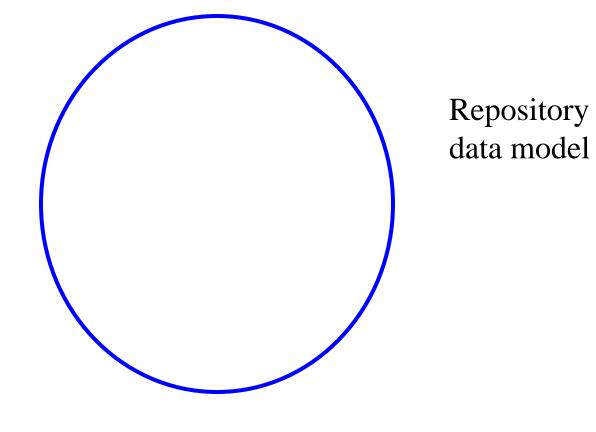
#### Benchmark Data added from NCSS Labs

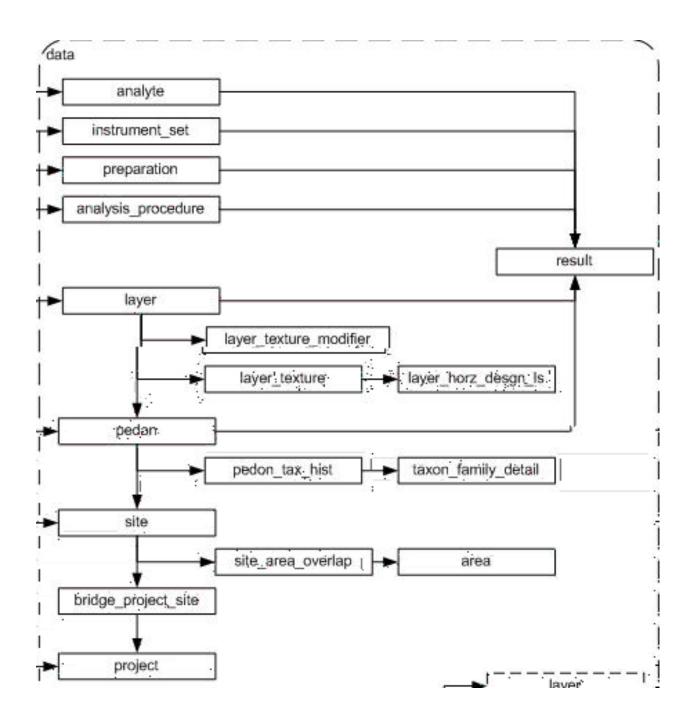




## Cooperating Universities - 2007

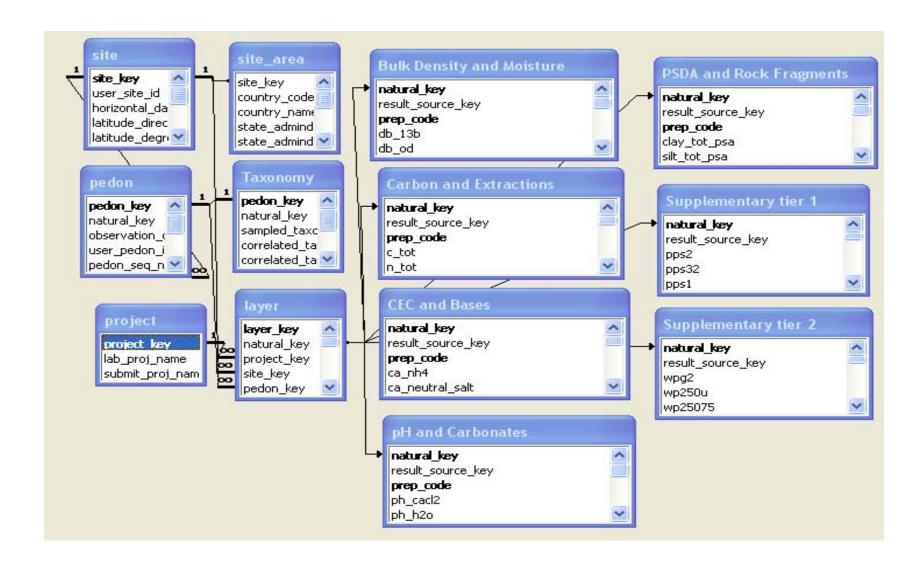
Cooperating University	Pedons	Data	Validate	Metadata	Description
Auburn University	300	X			X
Cornell University	800	XXX	XX	XXX	
North Dakota State University	1,700	XXX	XX	X	
Purdue University	1,600	XXX	XXX	XX	XX
University of California-Davis	1,500	X			X
University of Idaho	350	X			X
University of Illinois	2,177	XXX	XX	XX	XX
University of Minnesota	350	XXX	X		XX
Virginia Tech	1,700	X			X





#### Model core

### Sample User View



### Clay Summary Statistics by Master Horizon

correlated_taxon_name	hzn_ma	StDevO	VarOfcI	MinOfel	MaxOfc	AvgOfcI	CountO
Bluford	А	2.1445	4.5991	9.1	17.2	13.03	27
Bluford	В	8.5278	72.723	9.3	56.4	29.059	201
Bluford	ВС	11.811	139.5	13.9	51.6	26.886	7
Bluford	BE	10.868	118.10	15.9	47.3	26.75	6
Bluford	<u></u>	11,627 - 33,622	135 18	3.3	45 1	53,095	19
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## Base Data by Horizon

	taxon_name	county_name	user_pedon_id	hzn_de	hzn_top	hzn_bot	cec_nh4	ecec	base_sum	fldsyb	mapsyŁ	class_type	layer_k
•	Bluford	Clay	89IL025014	Ар	0	15	7.5		8.6			sampled as	107140
	Bluford	Clay	89IL025014	E1	15	23	8.9	6.6	4			sampled as	107141
	Bluford	Clay	89IL025014	E2	23	46	23.3	19.4	7.9			sampled as	107142
	Bluford	Clay	89IL025014	Bt1	46	53	24.9	20.8	8.9			sampled as	107143
	Bluford	Clay	89IL025014	Bt2	53	71	19.5	16.2				sampled as	107144
	Bluford	Clay	89IL025014	Bt3	71	102	14.9	12.6	8.7			sampled as	107145
	Bluford	Clay	89IL025014	2Btx	102	152	16		15.6			sampled as	107146
	Bluford	Clay	89IL025014	2BCg	152	229	17.8		18.9			sampled as	107147
	Bluford	Clay	89IL025014	2Btgb1	229	267	16		17.9			sampled as	107148
	Bluford	Clay	89IL025014	3Btgb2	267	343	11.2					sampled as	107149
	Bluford	Clay	901L025053	Ар	0	18	8		6.6			sampled as	107151
	Bluford	Clay	901L025053	E	18	32	7.7	5.7	4.9			sampled as	107152
	Bluford	Clay	901L025053	Btg1	32	58	15.7	12.5				sampled as	107153
	Bluford	Clay	901L025053	Btg2	58	95	21.2	17.3				sampled as	107154
	Bluford	Clay	901L025053	Btg3	95	130	17.9	14.3				sampled as	107155
	Bluford	Clay	901L025053	2Bcg	130	170	10.6	9.2				sampled as	107156
	Bluford	Clay	901L025053	3Ab	170	220	10.1		9.6			sampled as	107157
	Bluford	Clay	901L025053	3Btgb1	220	240	11.8		11.8			sampled as	107158
	Bluford	Clay	901L025053	3Btgb2	240	265	15.4		16.1			sampled as	107159
	Bluford	Clay	901L025053	ЗВСЬ	265	350	12.5					sampled as	107160
	Bluford	Clay	901L025053	3C1	350	400	6.8					sampled as	107161
	Bluford	Clay	901L025053	3C2	400	750	3.5					sampled as	107162
	Bluford	Clay	901L025053	4C	750	850	23.8					sampled as	107163
	Bluford	Clay	901L025057	Ар	0	20	9.6		10.3			sampled as	107190
	Bluford	Clay	901L025057	E	20	35	8.6		4.5			sampled as	107191
	Bluford	Clay	901L025057	Btg1	35	75	20.9	17.4	6.7			sampled as	107192
	Bluford	Clay	901L025057	Btg2	75	130	21.3	18.3	12.5			sampled as	107193
	Bluford	Clay	901L025057	Btg3	130	200	21.6		21.5			sampled as	107194
	Bluford	Clay	901L025057	2BCg	200	255	14.3		15.1			sampled as	107195
	Bluford	Clay	901L025057	3Btg1	255	280	22.9		24			sampled as	107196
	Bluford	Clay	901L025057	3Btg2	280	355	22.7					sampled as	107197
	Bluford	Clay	901L025057	4C	355	480	8.7					sampled as	107198
	Bluford	Clay	901L025057	5C	480	580	1.9					sampled as	107199

Pedon Identification: 00IL053001 Site Identification: 00IL053001 Laboratory Pedon ID: 00P0991 - DESCRIPTION INFORMATION: Laboratory Soil Name Taxon Kind Taxonomy Phrase SSL Pella SSL Pella Fine-silty, mixed, superactive, mesic Typic Endoaquolls series Correlated Soil Pedon Type Last Update Site Origin 09/18/2001 NSSL within range of map unit Pella 03/12/2008 MLRA11 Office - REPOSITORY INFORMATION Classifier Class Type Soil Name Taxonomy Phrase Date Taxon Kind sampled as Pella series <----> Туре Degrees Direction Minutes Seconds Datum Latitude 55.00 NAD27 40 north 44 Longitude 88 7 39.00 west <----> Author Creation Date Note Note Is Unavailable! Geo-Reference Point Map Unit Information: Name: Pella silty clay loam, 0 to 2 percent slopes Symbol: 153A Pella Series Correlation Report Kind: Consociation

Pedon Identification: 83IL053006 Site Identification: 83IL053006 Laboratory Pedon ID: 83P0771

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Description Is Unavailable!

#### <------ REPOSITORY INFORMATION -------

Class Type	Soil Name	Taxon Kind	Taxonomy Phrase	Classifier	Date
sampled as	Pella	series	Fine-silty, mixed, mesic Typic Haplaquoll		11-01-1991
SSL	Pella	series	Fine-silty, mixed, mesic Typic Haplaquoll		11-01-1991
correlated	Pella	series	Fine-silty, mixed, superactive, mesic Typic Haplaquoll		11-01-1991

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Type	Degrees	Direction	Minutes	Seconds	Datum
Latitude	40	north	48	21.00	
Longitude	88	west	9	0	

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Author Creation Date Note

Note Is Unavailable!

#### Geo-Reference Point Map Unit Information:

Name: Pella silty clay loam, 0 to 2 percent slopes

Symbol: 153A

Kind: Consociation

Pella Series Correlation Report

- Liaisons reassigned to divide MLRA SSO workload
- SOI8
- Georeference
  - Characterization sites
  - OSD
  - NASIS Descriptions
- Shape files

